Attachment 1

Mobile Dehumidification Unit (MDU)
Sources Sought Notice
70Z03826IE0000007

Specifications

The requested MDU must meet the minimum technical and operational requirements outlined in the table below:

Requirement Category	Specific Details / Parameters
Performance & Airflow	300 cubic feet per minute (CFM) of processed MDU air. Reduces relative humidity (RH) within aircraft to 30-40% within 1 hour. Automatically regulates supplied RH air regardless of ambient temp/humidity once docked. Achieves 30-40% RH for a minimum of 8 hours per day. Test ports for process airflow required.
System Operation	Electric reactivation of dehumidifier. Closed loop system. Doors and access panels gasketed with neoprene. Maximum 85 decibels (db) @ 0 feet while operating.
Mobility & Dimensions	Unit mounted on a mobile roll-around pushcart with handle/handrail. Maximum dimensions: 72 inches (H) x 33 inches (W) x 72 inches (L). Must enter through standard industrial personnel hangars doors. Parking brake(s) required.
Storage Features	Enclosure for duct and adapter storage. Power Cord hangar for storage/movement.
Electrical & Safety	Rated for indoor environment/use. UL or ETL listed/approved electrical equipment. All electrical components/connections mounted above 18 inches from floor level for use in NFPA Class I, Div. 2 environments (compliant with NFPA 70, Art. 513 and NFPA 505, Chap. 4).
Power Requirements	Must support two standards: 1.) 208-240vac/3ph/60hz 2.) 440-480vac/3ph/60hz @ 60 amps maximum.

Power Cable	Standard: 50 feet (SOOW - service, oil resistant conductors, oil resistant jacket, water resistant) power cable (bare end; no plug). Option: Increase to 100 feet (SOOW) power cable based on location. *(Note: CG will provide/install the power cord plug upon delivery).*
Inlets & Interface	Standard 8-inch process air inlet and outlet. Optional reducer from 8-inch to 4-inch hoses. Dock/undock in 5 minutes or less (achieved via CG-supplied Aircraft Interface Adapters). *(Note: Hoses and AIAs will be supplied by CG at delivery).*
Paint & Coating	Cart painted white polyurethane coating (17925, mil-prf-85285). Controls/components can use standard commercial practices/coatings. The cart shall be primed and painted using standard commercial practices using commercially available coatings and shall conform to coating manufacturer's guidelines. The finish shall show no evidence of uneven application, curtains, runs, snags, orange peel, lack of adhesion, or other defects.
Rust Proofing	Tropical rust proofing (premium package/corrosion preventative compound) required due to high humidity/salt spray. Must cover: Exterior, seams, welds, hidden recessed areas, and dissimilar metal contacts.
Grounding	Grounding reel with 100 feet of 3/32 inch cable with mounted alligator or hand grip clip.
Transportability	Capable of transport by commercial trailers, trains, and marine vessels. Must withstand impact forces encountered in shipment without damage or permanent deformation.
Markings & Plates	Securely attached instruction, warning, and caution plates. Permanent corrosion-resistant ID plate containing: Nomenclature, MFR Part #, MFR Model #, MFR Serial #, MFR Name, CAGE Code, MFR Address, MFR Service Phone #, Date of Manufacture, and Contract #.